



Michael R. Bloomberg
Mayor

Caswell F. Holloway
Commissioner

SENTINEL MONITORING REPORT - 2010





June 30, 2011

Mr. Robert Elburn, P.E.,
Regional Water Engineer
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Division of Water - Region II
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Vincent Sapienza, P.E.
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Re: 2010 Annual Sentinel Monitoring Report

Dear Mr. Elburn:

Pursuant to the State Pollutant Discharge Elimination System permit and in accordance with the section for Untreated Discharges, attached is the Department of Environmental Protection's Sentinel Monitoring Program Annual Report for 2010.

Sincerely,

A handwritten signature in black ink, appearing to read 'Vincent Sapienza', with a stylized flourish at the end.

Vincent Sapienza, P.E.
Deputy Commissioner

JV/

**NEW YORK CITY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SENTINEL MONITORING**

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INTRODUCTION

The Shoreline Survey Program-Cycle II conducted by the Bureau of Wastewater Treatment's Compliance Monitoring Section (CMS) between 1998 and 2010 has resulted in the identification of 3,894 outfalls including 423 Combined Sewer Overflows (CSO), 352 storm outfalls and other outfalls such as highway drains and non-city owned. A total of 370 contaminated discharges representing a flow of 4.16 MGD were identified. Since then, 314 of these contaminated discharges have been abated, representing a flow of 4.02 MGD, of which 223 discharging pipes are city-owned and the remainder, 89, falls under the jurisdiction of NYSDEC. Currently NYCDEP has six (6) contaminated discharge pipes under abatement investigation, or 0.05 MGD, whereas 45 pipes under the jurisdiction of NYSDEC remain to be abated or 0.09 MGD. Therefore, the benefit has been a 96.5 % abatement rate of contaminated dry weather discharges.

As an enhancement and modification of the two-year cycle of surveying the City's coastal waters under the Shoreline Survey Program, a "**SENTINEL MONITORING PROGRAM**" was designed, in cooperation with NYSDEC, to monitor specific sampling areas for fecal coliform in water bodies throughout New York City. NYCDEP currently performs sentinel monitoring at eighty ambient monitoring stations in accordance with the current SPDES permit Stormwater Management Program.

A dry weather baseline figure for fecal coliform, a sewage indicator, was established for the 80 sentinel stations by calculating the logarithmic average from sampling each station ten (10) times during various tidal cycles and seasons to ensure statistical integrity.

To prevent unnecessary responses to minor exceedances of a baseline number, NYCDEP with NYSDEC changed the trigger for initiation of a mini shoreline survey investigation:

- For stations with baselines below 50MPN/100ml, a mini-shoreline investigation is to be conducted when a value of 100MPN/100ml or above is found.
- For stations with baselines between 51MPN/100ml and 100MPN/100ml, a mini-shoreline investigation is to be conducted when a value of 150MPN/100ml or above is found.
- For stations with baselines between 101MPN/100ml - 200MPN/100ml, a mini-shoreline investigation is to be conducted when a value of 201MPN/100ml or above is found.
- For stations with baselines above 201MPN/100ml, a mini-shoreline investigation will be conducted for any exceedance of the baseline.

The basic goal established for the **Sentinel Monitoring Program** is the periodic monitoring and sampling of ambient stations throughout New York City's harbor. Quarterly fecal coliform sampling is conducted at eighty stations, and the results are compared to an established baseline. When sampling reveals coliform levels above the baseline trigger limits, NYCDEP aggressively pursues field investigations and surveillance of the adjacent shoreline of such sentinel stations to determine the source and cause of the contamination. Immediate actions are implemented to abate such illegal discharges.

OPERATIONAL PLAN

The Compliance Monitoring Section has identified eighty monitoring stations that encompass the New York City harbor, and are monitored by the Shoreline Survey Unit. Each station is sampled and monitored quarterly for fecal coliform after a dry antecedent period of forty eight hours. Any exceedance of the baseline coliform trigger numbers requires NYCDEP to commence a survey of the affected shoreline and upstream investigations for all contaminated dry weather discharges found. When a survey of the shoreline is performed, all shoreline survey protocols described in the Untreated Discharges Section of the SPDES permit are followed.

Each site is identified by a station number and its location in the water is pinpointed using latitude and longitude coordinates from a Global Positioning System Navigator.

Details of the **Sentinel Monitoring Program** such as coordinate system, site map, analytical result, and baseline are described through the following tables, graphs and maps.

SURVEY STATISTICS

Fecal Coliform Baseline MPN/100 ml	Number of Stations	Percentage (%) of Stations	Number of Mini-shoreline Surveys Triggered
1 – 50	37	46.3	13
51 – 100	17	21.3	3
101 – 150	4	5.0	3
151 – 200	2	2.5	0
201 – 800	11	13.8	7
≥ 801	9	11.3	12

Summary of Possible Reasons for Various High Fecal Coliform Baselines

After reviewing the statistics for the 2010 survey of the New York Sentinel Monitoring Stations, the following trends were observed in the Bronx River and Hutchinson River indicating that the source(s) of the fecal contamination are from north of the New York City border.

Bronx River

Data indicated that the contaminants for the high fecal coliform baseline concentration of 4614 MPN/100 ml at the sampling station S61 (241st Street) originated from upstream north of the Bronx borderline. As the water flowed downstream to the station S7 (south of East Gun Hill Road) the baseline concentration decreased to 1483 MPN/100 ml. It further decreased to 1225 MPN/100 ml at the next downstream station S60 (180th Street), and continued to decrease to 379 MPN/100 ml at the station S59 (Randall Avenue)

Hutchinson River

Data indicated that the contaminants for the high fecal coliform baseline concentration of 1649 MPN/100 ml at the sampling station S62 (Ash Loop) originated from upstream north of the Bronx borderline. However the baseline concentration decreased to 29 MPN/100 ml as the water reached the downstream sampling station S3 (Eastchester Bay & Lafayette Avenue).

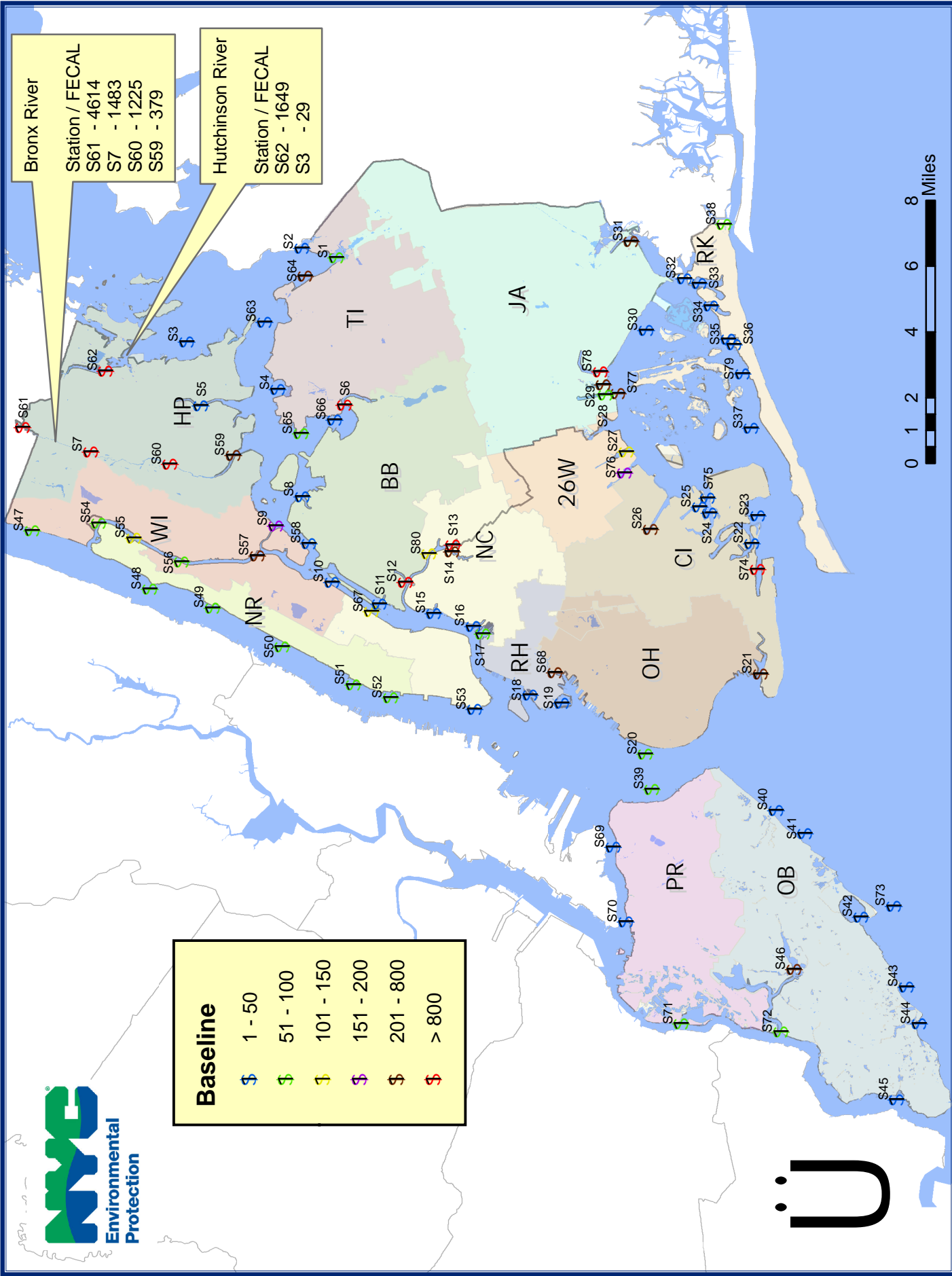
New York Harbor Sentinel Monitoring Stations 2010 - Survey Statistics



Baseline	
\$	1 - 50
\$	51 - 100
\$	101 - 150
\$	151 - 200
\$	201 - 800
\$	> 800

Bronx River
Station / FECAL
S61 - 4614
S7 - 1483
S60 - 1225
S59 - 379

Hutchinson River
Station / FECAL
S62 - 1649
S3 - 29





Sampling Stations & Baselines

Station ID	Location	Latitude	Longitude	2010 Baseline 95 % UCL	2011 Baseline 95 % UCL
S1	Alley Creek & Northern Boulevard (Northside)	40° 46' 07"	73° 45' 26"	222	96
S2	Entrance to Udall's Cove at Village Park	40° 47' 01"	73° 45' 06"	44	44
S3	Eastchester Bay & Lafayette Avenue	40° 50' 05"	73° 48' 21"	27	29
S4	Entrance to Powell's Cove	40° 47' 40"	73° 50' 01"	60	30
S5	Westchester Creek north of Unionport Bridge	40° 49' 43"	73° 50' 35"	54	37
S6	Entrance to Flushing River w/o Whitestone Expressway	40° 45' 54"	73° 50' 34"	2188	1945
S7	Bronx River South of East Gun Hill Road	40° 52' 38"	73° 52' 10"	1421	1483
S8	Entrance to Steinway Creek	40° 47' 01"	73° 53' 44"	67	39
S9	Entrance to Bronx Kills n/o Randall's Island Park	40° 47' 44"	73° 54' 46"	158	165
S10	Hallets Cove and 30th Drive	40° 46' 14"	73° 56' 44"	24	35
S11	East Channel & Entrance to 45th Avenue Canal	40° 44' 59"	73° 57' 29"	33	26
S12	Entrance to Dutch Kills South of LIRR Bridge	40° 44' 17"	73° 56' 44"	943	812
S13	Newtown Creek n/o Grand Avenue Bridge	40° 43' 02"	73° 55' 26"	1701	1236
S14	Entrance to English Kills at Scott street	40° 43' 04"	73° 55' 41"	1945	413
S15	Entrance to Bushwick Inlet	40° 43' 32"	73° 57' 50"	35	24
S16	Entrance to Wallabout Channel	40° 42' 30"	73° 58' 16"	60	36
S17	Entrance to Brooklyn Navy Yard	40° 42' 14"	73° 58' 32"	23	52
S18	Entrance to Atlantic Basin	40° 40' 59"	73° 00' 41"	21	26
S19	Entrance to Erie Basin at Dwight Street	40° 40' 09"	73° 00' 56"	25	16
S20	Upper New York Bay & 79th street	40° 37' 56"	73° 02' 44"	72	59
S21	Entrance to Coney Island Creek at Kaiser Playground	40° 34' 53"	73° 59' 56"	645	697
S22	Shell Bank Creek & Lois Avenue	40° 35' 07"	73° 55' 24"	17	18
S23	Gerritsen Inlet at Dead Horse Bay	40° 34' 57"	73° 54' 26"	21	23
S24	Mill Basin & Indiana Place	40° 36' 14"	73° 54' 19"	50	20
S25	Entrance to East Mill Basin at Basset Street	40° 36' 30"	73° 54' 07"	17	9
S26	Paerdegat Basin & Avenue K Marina	40° 37' 48"	73° 54' 54"	791	571
S27	Entrance to Hendrix Creek southeast of Belt Parkway	40° 38' 26"	73° 52' 12"	56	123

Fecal result = MPN / 100ml

UCL – Under Confidence Limit



Sampling Stations & Baseline

Station ID	Location	Latitude	Longitude	2010 Baseline 95 % UCL	2011 Baseline 95 % UCL
S28	Entrance to Shellbank Basin at 165th Avenue	40° 38' 59"	73° 50' 13"	157	92
S29	Entrance to Hawtree Basin at 164th Avenue	40° 39' 02"	73° 49' 52"	981	719
S30	Grassy Bay at South Runway 7-JFK Airport	40° 37' 55"	73° 47' 59"	35	44
S31	Entrance to Thurston Basin	40° 38' 18"	73° 44' 52"	677	442
S32	Entrance to Mott Basin at Breeze Place	40° 36' 53"	73° 46' 11"	7	15
S33	Entrance to Norton Basin at Dunbar Street	40° 36' 29"	73° 46' 21"	18	36
S34	Entrance to Sommerville Basin	40° 36' 11"	73° 47' 08"	17	20
S35	Entrance to Vernam Basin at Alameda Avenue	40° 35' 44"	73° 48' 18"	21	32
S36	Entrance to Barbadoes Basin at Beach 83rd Street	40° 35' 35"	73° 48' 29"	14	17
S37	Beach Channel and Beach 131st Street	40° 35' 08"	73° 51' 23"	10	19
S38	Bannister Creek & Atlantic Beach Bridge Approach	40° 35' 50"	73° 44' 19"	30	67
S39	Upper NY Bay & Navy Homeport (at Union Street)	40° 37' 46"	74° 03' 56"	53	55
S40	Lower NY Bay n/o Sand Lane (South Beach)	40° 34' 28"	74° 04' 40"	2	3
S41	Lower NY Bay s/o New Dorp Lane (Gateway Park)	40° 33' 42"	74° 05' 28"	3	3
S42	Entrance to Great Kills Harbor at Cleveland Avenue	40° 32' 13"	74° 08' 22"	7	6
S43	Raritan Bay n/o Huguenot Avenue	40° 31' 01"	74° 10' 48"	16	7
S44	Prince's Bay & entrance to Lemon Creek	40° 30' 40"	74° 12' 05"	4	4
S45	Arthur Kill & Entrance to Mill Creek	40° 31' 16"	74° 14' 43"	47	26
S46	Richmond Creek and Richmond Avenue (Eastside)	40° 33' 59"	74° 10' 12"	1091	354
S47	Hudson River & W.233rd Street	40° 54' 11"	73° 54' 56"	172	68
S48	Hudson River Under George Washington Bridge	40° 51' 04"	73° 56' 58"	91	96
S49	Hudson River & W.135th Street	40° 49' 25"	73° 57' 38"	95	73
S50	Hudson River & W. 86th Street	40° 47' 34"	73° 58' 59"	65	62
S51	Hudson River & W. 38th Street	40° 45' 41"	73° 00' 19"	118	88
S52	Hudson River & W. 14th Street	40° 44' 41"	73° 00' 46"	107	75
S53	Hudson River & South Cove (The Battery)	40° 42' 26"	73° 01' 10"	51	34
S54	Harlem River Under Broadway Bridge	40° 52' 25"	73° 54' 40"	152	63

Fecal result = MPN / 100ml

UCL – Under Confidence Limit



Sampling Stations & Baseline

Station ID	Location	Latitude	Longitude	2010 Baseline 95 % UCL	2011 Baseline 95 % UCL
S55	Harlem River & Sherman Creek	40° 51' 29"	73° 55' 11"	172	128
S56	Harlem River & W. 170th Street	40° 50' 13"	73° 56' 02"	113	62
S57	Harlem River n/o Willis Avenue Bridge	40° 48' 13"	73° 55' 49"	399	493
S58	East River & 24th Avenue	40° 46' 51"	73° 55' 23"	72	37
S59	Bronx River & Randall Avenue	40° 48' 51"	73° 52' 18"	333	379
S60	Bronx River & E. 180th Street	40° 50' 32"	73° 52' 37"	1133	1225
S61	Bronx River & E. 241st Street	40° 54' 26"	73° 51' 20"	5073	4614
S62	Hutchinson River & Ash Loop	40° 52' 14"	73° 49' 22"	1165	1649
S63	East River Under The Throggs Neck Bridge	40° 48' 01"	73° 47' 39"	41	9
S64	Little Neck Bay & 26th Avenue	40° 46' 56"	73° 46' 03"	293	328
S65	East River & 18th Avenue	40° 47' 04"	73° 51' 33"	148	55
S66	Flushing Bay & 31st Avenue	40° 46' 10"	73° 51' 04"	78	29
S67	East River & E. 51 Street	40° 45' 12"	73° 57' 46"	131	102
S68	Gowanus Bay e/o Hamilton Avenue Bridge	40° 40' 20"	73° 59' 53"	289	220
S69	Kill Van Kull & Tysen Street	40° 38' 47"	74° 05' 58"	39	16
S70	Kill Van Kull w/o Bayonne Bridge	40° 38' 27"	74° 08' 34"	26	24
S71	Arthur Kill e/o Prall's Island	40° 36' 59"	74° 12' 06"	136	75
S72	Arthur Kill & Fresh Kills	40° 34' 20"	74° 12' 23"	96	61
S73	Lower NY Bay e/o Crooke's Point (Gateway Park)	40° 34' 20"	74° 08' 01"	6	3
S74	Sheepshead Bay & Nostrand Avenue	40° 34' 58"	73° 56' 19"	1699	1307
S75	Mill Basin e/o Belt Parkway	40° 36' 17"	73° 53' 50"	17	12
S76	Fresh Creek Basin & Avenue N	40° 38' 29"	73° 52' 56"	231	190
S77	Grassy Bay Under Cross Bay Boulevard Bridge	40° 38' 40"	73° 50' 10"	108	516
S78	Bergen Basin & 163rd Avenue	40° 39' 07"	73° 49' 24"	7060	10636
S79	Broad Channel e/o Giant Bar Marsh	40° 35' 21"	73° 49' 30"	8	21
S80	Newtown Creek Under Kosciusko Bridge	40° 43' 40"	73° 55' 45"	312	118

Fecal result = MPN / 100ml

UCL – Under Confidence Limit



SHORELINE MONITORING PROGRAM

2011 BASELINE
ANALYTICAL RESULTS

Station ID	Samp1	Samp2	Samp3	Samp4	Samp5	Samp6	Samp7	Samp8	Samp9	Samp10	Baseline 95% UCL
S1	170	110	130	11	30	230	2	27	41	21	96
S2	170	50	2	8	17	23	4	50	2	80	44
S3	4	30	2	2	17	300	130	2	2	2	29
S4	8	50	40	17	27	50	11	4	2	23	30
S5	9	50	4	4	110	33	8	50	11	30	37
S6	280	4	800	500	13	3000	2400	3500	3000	800	1945
S7	1300	1100	5000	110	300	300	1700	500	800	1300	1483
S8	4	500	13	4	23	80	2	13	4	13	39
S9	500	1700	130	14	33	23	50	8	21	50	165
S10	27	14	17	2	23	13	300	7	22	2	35
S11	23	8	30	11	80	4	23	13	17	8	26
S12	50	300	8	800	300	5000	7	9000	30	110	812
S13	3000	230	110	230	50	2400	300	2200	500	1700	1236
S14	1300	170	300	34	21	1300	80	230	230	130	413
S15	8	17	2	14	50	23	17	23	17	14	24
S16	50	8	2	22	23	11	70	70	14	13	36
S17	27	4	13	50	30	11	280	7	7	110	52
S18	4	4	13	30	80	8	30	7	2	50	26
S19	20	11	11	17	70	2	2	4	4	7	16
S20	22	50	8	80	230	2	26	13	2	110	59
S21	30	5000	4	8	5000	500	500	30	2	1100	697
S22	6	80	11	6	30	4	2	8	2	21	18
S23	40	80	2	4	91	2	4	2	17	4	23
S24	130	23	2	30	4	4	4	2	11	11	20
S25	30	13	2	2	13	2	2	2	6	7	9
S26	130	500	230	110	280	300	110	300	1300	1700	571
S27	17	17	4	22	80	230	80	230	230	80	123

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Fecal result = MPN / 100ml

UCL - Under Confidence Limit



SHORELINE MONITORING PROGRAM

2011 BASELINE
ANALYTICAL RESULTS

Station ID	Samp1	Samp2	Samp3	Samp4	Samp5	Samp6	Samp7	Samp8	Samp9	Samp10	Baseline 95% UCL
S28	17	30	2	8	170	300	41	70	14	170	92
S29	80	300	500	30	2400	1700	230	300	300	430	719
S30	4	4	2	2	17	500	22	11	15	170	44
S31	300	300	170	130	5000	130	8	220	8.2	170	442
S32	2	6	2	2	7	7	14	2	2	300	15
S33	8	50	2	17	14	4	2	4	29	500	36
S34	83	22	2	13	17	7	6	2	2	30	20
S35	7	7	2	130	13	2	6	7	2	500	32
S36	4	4	2	23	2	8	2	2	2	500	17
S37	2	30	2	14	2	2	4	17	2	230	19
S38	2	2	17	1300	2	11	4	2	800	13	67
S39	23	230	50	80	30	30	23	8	2	11	55
S40	4	2	2	2	2	2	4	2	2	4	3
S41	2	2	4	2	2	2	4	2	2	2	3
S42	2	21	2	2	6	13	2	2	2	2	6
S43	2	4	48	2	2	2	13	2	2	2	7
S44	2	2	13	2	2	2	4	2	2	2	4
S45	50	22	41	2	17	2	22	17	4	23	26
S46	1300	80	300	500	230	30	7	300	4	280	354
S47	30	11	220	50	14	17	30	80	23	110	68
S48	50	8	80	130	4	23	50	30	50	500	96
S49	80	7	80	80	8	30	50	50	110	50	73
S50	17	4	130	80	8	30	27	23	50	130	62
S51	50	4	130	80	11	50	50	34	170	80	88
S52	50	13	70	220	4	50	130	30	23	27	75
S53	23	70	23	50	7	4	13	23	2	50	34
S54	30	30	110	230	11	4	30	30	23	50	63

Fecal result = MPN / 100ml

UCL - Under Confidence Limit



SHORELINE MONITORING PROGRAM

2011 BASELINE
ANALYTICAL RESULTS

Station ID	Samp1	Samp2	Samp3	Samp4	Samp5	Samp6	Samp7	Samp8	Samp9	Samp10	Baseline 95% UCL
S55	80	50	500	170	17	80	50	21	110	50	128
S56	110	22	110	170	13	22	8	30	30	17	62
S57	110	23	170	300	16000	30	230	70	300	8	493
S58	17	170	2	23	70	22	23	8	8	8	37
S59	2400	27	350	50	7	30	23	230	4	5000	379
S60	700	1700	800	5000	800	170	500	500	500	300	1225
S61	16000	16000	3000	170	72	17	700	500	1700	16000	4614
S62	3000	130	1700	30	23	800	50	2400	16000	230	1649
S63	13	17	13	4	2	2	4	4	4	13	9
S64	13	80	130	4	16000	130	4	30	1100	8	328
S65	11	230	4	22	30	130	13	40	23	17	55
S66	110	11	13	4	30	27	4	14	39	4	29
S67	13	300	13	13	2	3000	30	7	23	17	102
S68	34	170	170	17	300	500	17	17	130	500	220
S69	8	17	2	22	17	7	50	7	2	4	16
S70	2	8	4	4	23	2	130	4	50	30	24
S71	140	50	30	13	17	2	17	130	300	8	75
S72	23	17	140	30	21	2	110	23	130	8	61
S73	2	4	2	2	7	2	2	2	2	2	3
S74	500	9000	33	800	350	1100	500	1300	300	230	1307
S75	27	2	2	2	2	4	2	50	14	13	12
S76	500	8	110	22	280	170	6	11	41	800	190
S77	70	30	17	2	50	220	50	140	16000	2400	516
S78	500	5000	800	230	16000	16000	16000	16000	800	16000	10636
S79	2	27	2	11	2	2	2	50	2	300	21
S80	50	13	2	17	26	300	30	50	300	300	118

Fecal result = MPN / 100ml

UCL - Under Confidence Limit

1st QUARTER
JANUARY 1 - MARCH 31, 2010



SHORELINE MONITORING PROGRAM

2010

FECAL COLIFORM SAMPLE RESULTS

1st QUARTER

No	Sample Date	Station ID	Fecal Coliform	2010 Baseline (95% UCL)
1	1/12/2010	S 1	2	222
2	1/12/2010	S 2	4	44
3	1/12/2010	S 3	*130	27
4	1/12/2010	S 4	11	60
5	1/12/2010	S 5	8	54
6	1/12/2010	S 6	*2,400	2188
7	1/14/2010	S 7	*1,700	1421
8	2/22/2010	S 8	2	67
9	1/12/2010	S 9	50	158
10	1/13/2010	S 10	*300	24
11	1/13/2010	S 11	23	33
12	1/13/2010	S 12	7	943
13	1/13/2010	S 13	300	1701
14	1/13/2010	S 14	80	1945
15	1/13/2010	S 15	17	35
16	1/13/2010	S 16	70	60
17	1/11/2010	S 17	*280	23
18	1/11/2010	S 18	30	21
19	1/11/2010	S 19	2	25
20	1/11/2010	S 20	26	72
21	1/11/2010	S 21	500	645
22	1/11/2010	S 22	2	17
23	1/11/2010	S 23	4	21
24	1/11/2010	S 24	4	50
25	1/11/2010	S 25	2	17
26	1/11/2010	S 26	110	791
27	1/11/2010	S 27	80	56
28	1/21/2010	S 28	41	157
29	1/21/2010	S 29	230	981
30	1/21/2010	S 30	22	35
31	1/21/2010	S 31	8	677
32	1/21/2010	S 32	14	7
33	1/21/2010	S 33	2	18
34	1/21/2010	S 34	6	17
35	1/21/2010	S 35	6	21
36	1/21/2010	S 36	2	14
37	1/21/2010	S 37	4	10
38	1/14/2010	S 38	4	30
39	1/20/2010	S 39	23	53
40	1/20/2010	S 40	4	2

** Fecal Coliform Exceedance*



SHORELINE MONITORING PROGRAM

2010

FECAL COLIFORM SAMPLE RESULTS

1st QUARTER

No	Sample Date	Station ID	Fecal Coliform	2010 Baseline (95% UCL)
41	1/20/2010	S 41	4	3
42	1/20/2010	S 42	2	7
43	1/20/2010	S 43	13	16
44	1/20/2010	S 44	4	4
45	1/20/2010	S 45	22	47
46	1/14/2010	S 46	7	1091
47	2/2/2010	S 47	30	172
48	2/2/2010	S 48	50	91
49	2/2/2010	S 49	50	95
50	2/2/2010	S 50	27	65
51	2/2/2010	S 51	50	118
52	2/2/2010	S 52	130	107
53	2/2/2010	S 53	13	51
54	2/22/2010	S 54	30	152
55	2/22/2010	S 55	50	172
56	2/22/2010	S 56	8	113
57	2/2/2010	S 57	230	399
58	1/13/2010	S 58	23	72
59	1/12/2010	S 59	23	333
60	1/14/2010	S 60	500	1133
61	1/14/2010	S 61	700	5073
62	1/14/2010	S 62	50	1165
63	1/12/2010	S 63	4	41
64	1/12/2010	S 64	4	293
65	1/12/2010	S 65	13	148
66	1/12/2010	S 66	4	78
67	1/13/2010	S 67	30	131
68	1/13/2010	S 68	17	289
69	1/20/2010	S 69	50	39
70	1/20/2010	S 70	*130	26
71	1/20/2010	S 71	17	136
72	1/20/2010	S 72	110	96
73	1/20/2010	S 73	2	6
74	1/11/2010	S 74	500	1699
75	3/2/2010	S 75	2	17
76	3/2/2010	S 76	6	231
77	3/2/2010	S 77	50	108
78	1/21/2010	S 78	*16,000	7060
79	1/21/2010	S 79	2	8
80	1/13/2010	S 80	30	312

* Fecal Coliform Exceedance

WEATHER REPORT

The first quarter monitoring and sampling of ambient sampling stations began on January 01, and ended on March 31, 2010. During this quarter, all eighty sentinel stations were sampled.

During this quarter a total of 19.46 inches of precipitation fell. Out of a possible 33 days available for sampling, the sentinel sampling crew utilized 14 days for sampling and exceedance investigations.

MINI-SHORELINE SURVEY RESULTS

S-3: Eastchester Bay & Lafayette Avenue

A mini shoreline survey of the Eastchester Bay was conducted by the beginning of February. The survey covered the shorelines between City Island and Willets Point. No discharge was observed.

S-6: Entrance to Flushing River, w/o Whitestone Expressway

A mini shoreline survey of the Flushing River was conducted in mid February. The survey covered the shorelines between Roosevelt Avenue and 31st Road. No discharge was observed.

S-7: Bronx River, s/o of East Gun Hill Road

A mini shoreline survey of the Bronx River was conducted by the beginning of February. The survey targeted all the outfalls on both banks of the river, started north of East Gun Hill Road and proceeding northward to the Westchester County border. Two (2) outfalls with highly elevated fecal coliform levels, originating from Westchester County were identified to be the source of exceedance at the sentinel stations. The Compliance Monitoring Section has notified the NYSDEC of this ongoing problem.

S-10: Hallets Cove & 30th Drive

A mini shoreline survey of the Hallets Cove was conducted by the beginning of February. The survey covered the entire shoreline of the Cove. No discharge was observed.

S-17: Entrance to Brooklyn Navy Yard

A mini shoreline survey of the Brooklyn Navy Yard Basin was conducted by the beginning of February. The survey covered the entire shoreline of the basin. No discharge was observed.

S-70: Kill Van Kull, w/o Bayonne Bridge

A mini shoreline survey of the Kill Van Kull was conducted by the end of February. The survey covered the shoreline between Simonson Avenue and Nicholas Avenue. No discharge was observed.

S-78: Bergen Basin & 163rd Avenue

A mini shoreline survey of the Bergen Basin was conducted in mid February. The survey covered the entire shoreline of the basin. No discharge was observed. This station encompasses an area near JFK Airport (airport has over 60% controls) and access to the Basin is very limited due to airport security. This impacted DEP’s ability to investigate completely.

DRY WEATHER DISCHARGE

JAM-005 & Thurston Basin

As stated in the 2009 report, the status of the four (4) houses illicitly discharging into the storm sewer tributary to the outfall (JAM-005) remains unchanged. Nevertheless, the following enforcement proceedings were carried out by the Compliance Monitoring Section (CMS):

A. 137-27 Carson Street

Due to noncompliance to the Commissioner’s Order and failing to appear at the scheduled Environmental Control Board hearings, a Notice of Violation (NOV) #E 168609037 was issued to the homeowner on April 14, 2010. Again, the homeowner failed to appear for the next Environmental Control Board hearing that was scheduled for June 10, 2010. Hence, DEP legal department is in the process of issuing a Cease and Desist Order for the termination of water service.

B. 223-11 Carson Street

The owners of the property located at 223-11 Carson Street Queens were served with a Shut-off Notice. The owner is reportedly in the process of obtaining a loan from the Neighborhood Housing Services (NHS) to cover the cost of removal and repair of the illegal connection. The Cease and Desist hearing has been adjourned for February, 2011.

C. 143-61 225th Street & 95-11 222nd Street

Both of these houses still have no sanitary sewer fronting their properties

CMS personnel will continue monitoring all four cases and promptly report the status. Please refer to Item Number 3288.

TI-024 & Alley Creek

As part of an ongoing investigation to identify any illegal storm sewer connections tributary to the outfall TI-024, the following 180 establishments were dye tested:

- | | | | |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 240-29 67 th Ave | 240-31 67 th Ave | 240-33 67 th Ave | 240-45 67 th Ave |
| 240-39 67 th Ave | 240-36 67 th Ave | 240-28 67 th Ave | 240-43 67 th Ave |
| 240-57 67 th Ave | 240-35 67 th Ave | 240-37 67 th Ave | 240-27 67 th Ave |
| 240-53 67 th Ave | 240-59 67 th Ave | 240-34 67 th Ave | 240-51 67 th Ave |
| 240-55 67 th Ave | 240-63 67 th Ave | 240-61 67 th Ave | 240-69 67 th Ave |
| 240-41 67 th Ave | 240-83 67 th Ave | 240-72 67 th Ave | 240-65 67 th Ave |
| 240-67 67 th Ave | 240-75 67 th Ave | 240-52 67 th Ave | 240-78 67 th Ave |

240-79 67 th Ave	240-47 67 th Ave	240-76 67 th Ave	240-48 67 th Ave
240-60 67 th Ave	240-81 67 th Ave	240-70 67 th Ave	240-58 67 th Ave
240-30 67 th Ave	240-73 67 th Ave	240-17 67 th Ave	240-40 67 th Ave
240-11 67 th Ave	240-19 67 th Ave	240-42 67 th Ave	240-20 67 th Ave
240-18 67 th Ave	240-15 67 th Ave	240-21 67 th Ave	240-22 67 th Ave
240-16 67 th Ave	240-01 67 th Ave	240-12 67 th Ave	240-46 67 th Ave
240-64 67 th Ave	240-06 67 th Ave	240-07 67 th Ave	239-47 66 th Ave
239-45 66 th Ave	240-66 67 th Ave	240-49 67 th Ave	240-03 67 th Ave
239-41 66 th Ave	239-35 66 th Ave	239-43 66 th Ave	239-39 66 th Ave
239-29 66 th Ave	239-33 66 th Ave	239-42 66 th Ave	239-37 66 th Ave
239-31 66 th Ave	240-25 67 th Ave	239-55 66 th Ave	239-49 66 th Ave
239-51 66 th Ave	239-53 66 th Ave	239-44 66 th Ave	239-40 66 th Ave
239-38 66 th Ave	239-32 66 th Ave	239-27 66 th Ave	239-19 66 th Ave
239-25 66 th Ave	239-36 66 th Ave	240-05 67 th Ave	239-54 66 th Ave
240-12 66 th Ave	239-50 66 th Ave	239-46 66 th Ave	240-28 66 th Ave
239-30 66 th Ave	239-56 66 th Ave	240-71 67 th Ave	240-16 66 th Ave
240-20 66 th Ave	240-02 66 th Ave	240-14 66 th Ave	240-07 66 th Ave
240-17 66 th Ave	240-04 66 th Ave	240-06 66 th Ave	239-48 65 th Ave
239-52 65 th Ave	239-54 65 th Ave	239-29 65 th Ave	239-35 65 th Ave
239-33 65 th Ave	239-37 65 th Ave	240-33 65 th Ave	239-49 65 th Ave
240-37 66 th Ave	239-47 65 th Ave	239-51 65 th Ave	239-40 65 th Ave
239-53 65 th Ave	239-57 65 th Ave	239-30 65 th Ave	239-50 65 th Ave
239-59 65 th Ave	239-20 65 th Ave	239-19 65 th Ave	239-22 65 th Ave
239-21 65 th Ave	239-26 65 th Ave	239-27 65 th Ave	239-46 65 th Ave
239-25 65 th Ave	239-31 65 th Ave	239-28 65 th Ave	239-45 65 th Ave
239-36 65 th Ave	239-61 65 th Ave	240-15 65 th Ave	240-01 65 th Ave
240-01 65 th Ave	239-44 65 th Ave	239-41 65 th Ave	239-32 65 th Ave
239-23 65 th Ave	240-02 65 th Ave	240-12 65 th Ave	240-18 65 th Ave
240-28 65 th Ave	240-54 67 th Ave	239-43 65 th Ave	239-17 65 th Ave
239-34 65 th Ave	240-04 67 th Ave	240-08 67 th Ave	239-15 65 th Ave
240-17 65 th Ave	240-09 65 th Ave	240-16 65 th Ave	240-23 65 th Ave
239-39 65 th Ave	240-30 65 th Ave	239-48 65 th Ave	240-09 67 th Ave
240-42 65 th Ave	240-55 65 th Ave	240-10 67 th Ave	240-18 67 th Ave
240-14 67 th Ave	240-38 65 th Ave	240-27 65 th Ave	240-11 65 th Ave
240-25 65 th Ave	240-21 65 th Ave	240-03 66 th Ave	240-05 66 th Ave
240-34 66 th Ave	240-36 66 th Ave	240-19 66 th Ave	239-52 66 th Ave
239-24 65 th Ave	240-46 65 th Ave	240-09 66 th Ave	240-52 65 th Ave
240-56 65 th Ave	240-58 65 th Ave	240-15 66 th Ave	240-18 66 th Ave

The following eleven (11) establishments were confirmed to have illegal connections to the storm sewer:

240-81 67 th Ave	240-21 67 th Ave	239-33 66 th Ave	240-25 67 th Ave
239-49 66 th Ave	239-40 66 th Ave	239-38 66 th Ave	239-32 66 th Ave
239-39 65 th Ave	240-09 67 th Ave	240-10 67 th Ave	

Commissioner's Orders were issued, and the owners of these establishments promptly removed the illegal connections to the storm sewer except 240-10 67th Avenue. The case

is being reviewed by the DEP legal department. However, CMS personnel will continue to perform dye-test to eliminate any other illegal connections to the storm sewers tributary to the TI-024 outfall. Please refer to Item Number 4558.

TI-018 & Flushing Bay

In response to a request from NYS-DEC to investigate a possible oil sheen and residue in the waters near the outfall during dry weather, CMS personnel conducted an investigation. No evidence of oily substance was observed discharging from TI-018 or in the surrounding waters. Therefore, the case was closed.

BB-008, 108th & 37th Avenue, Queens

In response to a referral from DEP – Collections Facilities of a possible illegal connection to the storm sewer tributary to BB-008, CMS personnel conducted a joint investigation with Collections Facilities.

As part of the investigation, the storm sewer was video taped and Collections Facilities is currently reviewing the tape to identify the cause(s) of dry weather overflow. Please refer to Item Number 3687.

CI-664, W 15 Street & Coney Island Creek

The investigation to determine source(s) of contaminated dry-weather discharge from CI-664, located at West 15th Street and Coney Island Creek is still ongoing. Nevertheless, the status of the direct sanitary waste discharge into the creek from the house located at 1427 Hart Place, Brooklyn, NY 11224, remains unchanged as stated in the prior reports. The house still has no sewer fronting the property.

CMS personnel will continue investigating the area for more illegal connections to the storm sewer that affects the outfall CI-664. Please refer to Item Number 3621.

2nd QUARTER
APRIL 1 - JUNE 30, 2010



SHORELINE MONITORING PROGRAM

2010

FECAL COLIFORM SAMPLE RESULTS

2nd QUARTER

No	Sample Date	Station ID	Fecal Coliform	2010 Baseline (95% UCL)
1	6/7/2010	S 1	27	222
2	6/7/2010	S 2	50	44
3	6/7/2010	S 3	2	27
4	6/7/2010	S 4	4	60
5	6/7/2010	S 5	50	54
6	6/7/2010	S 6	*3,500	2188
7	4/6/2010	S 7	500	1421
8	4/21/2010	S 8	13	67
9	4/21/2010	S 9	8	158
10	4/21/2010	S 10	7	24
11	4/21/2010	S 11	13	33
12	4/21/2010	S 12	*9,000	943
13	4/21/2010	S 13	*2,200	1701
14	4/21/2010	S 14	230	1945
15	4/21/2010	S 15	23	35
16	4/21/2010	S 16	70	60
17	4/13/2010	S 17	7	23
18	4/13/2010	S 18	7	21
19	4/14/2010	S 19	4	25
20	4/14/2010	S 20	13	72
21	4/14/2010	S 21	30	645
22	4/14/2010	S 22	8	17
23	4/14/2010	S 23	2	21
24	4/14/2010	S 24	2	50
25	4/14/2010	S 25	2	17
26	4/12/2010	S 26	300	791
27	4/12/2010	S 27	*230	56
28	4/12/2010	S 28	70	157
29	4/12/2010	S 29	300	981
30	4/12/2010	S 30	11	35
31	4/12/2010	S 31	220	677
32	4/12/2010	S 32	2	7
33	4/12/2010	S 33	4	18
34	4/12/2010	S 34	2	17
35	4/12/2010	S 35	7	21
36	4/12/2010	S 36	2	14
37	4/14/2010	S 37	17	10
38	4/6/2010	S 38	2	30
39	4/20/2010	S 39	8	53
40	4/20/2010	S 40	2	2

* Fecal Coliform Exceedance



SHORELINE MONITORING PROGRAM

2010

FECAL COLIFORM SAMPLE RESULTS

2nd QUARTER

No	Sample Date	Station ID	Fecal Coliform	2010 Baseline (95% UCL)
41	4/20/2010	S 41	2	3
42	4/20/2010	S 42	2	7
43	4/20/2010	S 43	2	16
44	4/20/2010	S 44	2	4
45	4/20/2010	S 45	17	47
46	4/6/2010	S 46	300	1091
47	4/13/2010	S 47	80	172
48	4/13/2010	S 48	30	91
49	4/13/2010	S 49	50	95
50	4/13/2010	S 50	23	65
51	4/13/2010	S 51	34	118
52	4/13/2010	S 52	30	107
53	4/13/2010	S 53	23	51
54	4/13/2010	S 54	30	152
55	4/13/2010	S 55	21	172
56	4/13/2010	S 56	30	113
57	4/13/2010	S 57	70	399
58	4/21/2010	S 58	8	72
59	6/7/2010	S 59	230	333
60	4/6/2010	S 60	500	1133
61	4/6/2010	S 61	500	5073
62	4/6/2010	S 62	*2,400	1165
63	6/7/2010	S 63	4	41
64	6/7/2010	S 64	30	293
65	6/7/2010	S 65	40	148
66	6/7/2010	S 66	14	78
67	4/21/2010	S 67	7	131
68	4/14/2010	S 68	17	289
69	4/20/2010	S 69	7	39
70	4/20/2010	S 70	4	26
71	4/20/2010	S 71	130	136
72	4/20/2010	S 72	23	96
73	4/20/2010	S 73	2	6
74	4/14/2010	S 74	1,300	1699
75	4/14/2010	S 75	50	17
76	4/14/2010	S 76	11	231
77	4/12/2010	S 77	140	108
78	4/12/2010	S 78	*16000	7060
79	4/14/2010	S 79	50	8
80	4/21/2010	S 80	50	312

* Fecal Coliform Exceedance

WEATHER REPORT

The second quarter monitoring and sampling of ambient sampling stations began on April 01 and ended on June 30, 2010. During this quarter, all eighty sentinel stations were sampled.

During this quarter a total of 8.20 inches of precipitation fell. Out of a possible 33 days available for sampling, the sentinel sampling crew utilized 11 days for sampling and exceedance investigations.

MINI-SHORELINE SURVEY RESULTS

S-6: Entrance to Flushing River, w/o Whitestone Expressway

A mini shoreline survey of the Flushing River was conducted by the end of June. The survey covered the shorelines between Roosevelt Avenue and 31st Road. No discharge was observed.

S-12: Entrance to Dutch Kills, s/o LIRR Bridge

A mini shoreline survey was conducted by the end of April. The survey covered the entire shoreline of the Dutch Kills. No discharge was observed.

S-13: Newtown Creek, n/o Grand Avenue

A mini shoreline survey of the Newtown Creek was conducted by the end of April. The survey covered the shorelines between Grand Avenue and 58th Street. No discharge was observed.

S-27: Entrance to Hendrix Creek, se/o Belt Parkway

A mini shoreline survey of the Hendrix Creek was conducted by the beginning of May. The survey covered the entire shoreline of the creek. No discharge was observed.

S-62: Hutchinson River & Ash Loop

A mini shoreline survey of the Hutchinson River was conducted in mid April. The survey covered the shoreline of Co-op City in the Bronx. No discharge was observed.

S-78: Bergen Basin & 163rd Avenue

A mini shoreline survey of the Bergen Basin was conducted by the beginning of May. The survey covered the entire shoreline of the basin. No discharge was observed. This station encompasses an area near JFK Airport (airport has over 60% controls) and access to the Basin is very limited due to airport security. This impacted DEP's ability to investigate completely.

DRY WEATHER DISCHARGES

35 Gravesend Neck Road, Brooklyn

In response to a request from NYS-DEC official to investigate a possible dry weather discharge at 35 Gravesend Neck Rd, a joint investigation was conducted by CMS personnel and NYS DEC officers. The investigation revealed that there was no sanitary sewer fronting the property. Due to the nature of the discharge, the case was transferred to NYS-DEC.

3 River Road, Bronx

In response to a request from NYS-DEC to verify the sewer connection fronting 3 River Road, Bronx, a joint investigation was conducted by CMS, Bureau of Water and Sewer Operations (BWSO) and NYS-DEC. The investigation revealed that the house is connected to the private storm sewer fronting the property. The nearest sanitary sewer is more than 125 feet away from the boundary of the property. This case is under NYS-DEC investigation and jurisdiction.

1305 Travis Avenue, Staten Island

In response to a request from BWSO to investigate a possible illegal discharge from a strip mall located at 1305 Travis Avenue to a storm sewer, CMS, BWSO and NYS-DEC personnel conducted a joint investigation. A discharge with sewage odor was observed in storm sewer fronting the mall. As a result, dye was introduced to the strip mall's sanitary system, but it was inconclusive. No dye was observed in the septic pit for the strip mall or in the storm sewer. NYS-DEC will conduct further investigation.

HP-010 & Bronx River

The investigation to determine the source(s) of contaminated dry-weather discharge from CSO designated as HP-010, is still ongoing.

CMS has referred the case to the BWSO, which is in the process of excavating the buried manholes to determine the source of the dry-weather discharge. Please refer to Item Number 3374.

3rd QUARTER
JULY 1 - SEPTEMBER 30, 2010



SHORELINE MONITORING PROGRAM

2010

FECAL COLIFORM SAMPLE RESULTS

3rd QUARTER

No	Sample Date	Station ID	Fecal Coliform	2010 Baseline (95% UCL)
1	8/2/2010	S 1	41	222
2	8/2/2010	S 2	2	44
3	8/2/2010	S 3	2	27
4	8/2/2010	S 4	2	60
5	8/2/2010	S 5	11	54
6	8/2/2010	S 6	*3,000	2188
7	7/6/2010	S 7	800	1421
8	8/2/2010	S 8	4	67
9	7/19/2010	S 9	21	158
10	7/19/2010	S 10	22	24
11	7/19/2010	S 11	17	33
12	8/4/2010	S 12	30	943
13	8/4/2010	S 13	500	1701
14	8/4/2010	S 14	230	1945
15	7/19/2010	S 15	17	35
16	7/19/2010	S 16	14	60
17	7/19/2010	S 17	7	23
18	7/22/2010	S 18	2	21
19	7/22/2010	S 19	4	25
20	7/22/2010	S 20	2	72
21	7/22/2010	S 21	2	645
22	7/22/2010	S 22	2	17
23	7/22/2010	S 23	17	21
24	7/22/2010	S 24	11	50
25	7/22/2010	S 25	6	17
26	7/22/2010	S 26	*1,300	791
27	7/22/2010	S 27	*230	56
28	8/10/2010	S 28	14	157
29	8/10/2010	S 29	300	981
30	8/10/2010	S 30	15	35
31	8/9/2010	S 31	8	677
32	8/9/2010	S 32	2	7
33	8/9/2010	S 33	29	18
34	8/9/2010	S 34	2	17
35	8/9/2010	S 35	2	21
36	8/9/2010	S 36	2	14
37	8/9/2010	S 37	2	10
38	7/7/2010	S 38	*800	30
39	8/3/2010	S 39	2	53
40	8/3/2010	S 40	2	2

* Fecal Coliform Exceedance



SHORELINE MONITORING PROGRAM

2010

FECAL COLIFORM SAMPLE RESULTS

3rd QUARTER

No	Sample Date	Station ID	Fecal Coliform	2010 Baseline (95% UCL)
41	8/3/2010	S 41	2	3
42	8/3/2010	S 42	2	7
43	8/3/2010	S 43	2	16
44	8/3/2010	S 44	2	4
45	8/3/2010	S 45	4	47
46	7/7/2010	S 46	4	1091
47	7/28/2010	S 47	23	172
48	7/28/2010	S 48	50	91
49	7/28/2010	S 49	110	95
50	7/28/2010	S 50	50	65
51	7/28/2010	S 51	170	118
52	7/28/2010	S 52	23	107
53	7/28/2010	S 53	2	51
54	7/28/2010	S 54	23	152
55	7/28/2010	S 55	110	172
56	7/28/2010	S 56	30	113
57	7/28/2010	S 57	300	399
58	7/19/2010	S 58	8	72
59	8/2/2010	S 59	4	333
60	7/6/2010	S 60	500	1133
61	7/6/2010	S 61	1,700	5073
62	7/6/2010	S 62	*16000	1165
63	8/2/2010	S 63	4	41
64	8/2/2010	S 64	*1,100	293
65	8/2/2010	S 65	23	148
66	8/2/2010	S 66	39	78
67	7/19/2010	S 67	23	131
68	7/28/2010	S 68	130	289
69	8/3/2010	S 69	2	39
70	8/3/2010	S 70	50	26
71	8/3/2010	S 71	*300	136
72	8/3/2010	S 72	130	96
73	8/3/2010	S 73	2	6
74	7/22/2010	S 74	300	1699
75	7/22/2010	S 75	14	17
76	8/10/2010	S 76	41	231
77	8/10/2010	S 77	*16000	108
78	8/10/2010	S 78	800	7060
79	8/9/2010	S 79	2	8
80	8/4/2010	S 80	300	312

* Fecal Coliform Exceedance

WEATHER REPORT

The third quarter monitoring and sampling of ambient sampling stations began on July 01 and ended on September 30, 2010. During this quarter, all eighty sentinel stations were sampled.

During this quarter a total of 10.41 inches of precipitation fell. Out of a possible 42 days available for sampling, the sentinel sampling crew utilized 15 days for sampling and exceedance investigations.

MINI-SHORELINE SURVEY RESULTS

S-6: Entrance to Flushing River, w/o Whitestone Expwy

A mini shoreline survey of the Flushing River was conducted by the beginning of August. The survey covered both banks of the river between Roosevelt Avenue and 31st Road. No discharge was observed.

S-26: Paerdegat Basin & Avenue K

A mini shoreline survey of the Paerdegat Basin was conducted by the end of July. The survey covered the entire shoreline of the basin. No discharge was observed.

S-27: Entrance to Hendrix Creek, se/o Belt Parkway

A mini shoreline survey of the Hendrix Creek was conducted by the end of July. The survey covered the entire shoreline of the creek. No discharge was observed.

S-38: Bannister Creek & Atlantic Beach Bridge Approach

A mini shoreline survey of the Bannister Creek was conducted by the end of July. The survey covered the entire shoreline of the creek. No discharge was observed.

S-62: Hutchinson River & Ash Loop

A mini shoreline survey of the Hutchinson River was conducted by the end of July. The survey covered the shoreline of the river by the Co-op City in the Bronx. No discharge was observed.

S-64: Little Neck Bay & 26th Avenue

A mini shoreline survey of the Little Neck Bay was conducted by the beginning of August. The survey covered the shoreline between 26th Street and 32nd Avenue. No discharge was observed.

S-71: Arthur Kill, e/o Prall's Island

A mini shoreline survey of the Arthur Kill was conducted by the end of August. The survey covered the shoreline between Meredith Avenue and Spencer Street (*east of Prall's Island*). No discharge was observed.

S-77: Grass Bay under Cross Bay Boulevard Bridge

A mini shoreline survey of the Grassy Bay was conducted in mid August. The survey covered the entire shorelines of the bay. No discharge was observed.

DRY WEATHER DISCHARGES

NY Skyport, 2430 FDR Drive, NYC

In response to a request from DEP management to investigate status of the direct discharge to the East River from a bathroom at the NY Skyport located at 2430 FDR Drive, the CMS and BWSO personnel conducted a joint investigation. As per I & I map, the establishment is located at the end of E. 23rd Street and has no sanitary sewer fronting the property. NYS-DEC was notified of the investigation.

OH – 521 & Gowanus Canal

In response to a request from NYS-DEC to investigate a possible dry weather discharge at the outfall OH-521, tributary to the Gowanus Canal, an investigation was conducted. Dye test revealed that Mattan Wireless, located at 61 9th Street, Brooklyn was discharging sanitary waste to the canal. Dye was introduced into the establishment's bathroom and house trap (pit), which resulted in dye being observed at the above referenced outfall. Due to the nature of the discharge, the case was referred to NYS-DEC.

Douglass Street & Gowanus Canal

As part of an ongoing investigation to eliminate any illegal connection to the storm sewer tributary to the Gowanus Canal, CMS personnel investigated Vigilante Plumbing, Heating & Air Service located at 195 Douglass Street, and Budra Construction Corporation located at 191 Douglass Street. Both establishments discharged directly to a storm line fronting the properties since there was no sanitary sewer along the block. Due to the nature of the discharge, the cases were referred to NYS-DEC.

4th QUARTER
OCTOBER 1 - DECEMBER 31, 2010



SHORELINE MONITORING PROGRAM

2010

FECAL COLIFORM SAMPLE RESULTS

4th QUARTER

No	Sample Date	Station ID	Fecal Coliform	2010 Baseline (95% UCL)
1	10/26/2010	S 1	21	222
2	10/26/2010	S 2	80	44
3	10/26/2010	S 3	2	27
4	10/26/2010	S 4	23	60
5	10/26/2010	S 5	30	54
6	10/26/2010	S 6	800	2188
7	11/3/2010	S 7	1,300	1421
8	10/26/2010	S 8	13	67
9	10/26/2010	S 9	50	158
10	11/30/2010	S 10	2	24
11	11/30/2010	S 11	8	33
12	11/30/2010	S 12	110	943
13	11/30/2010	S 13	1,700	1701
14	11/30/2010	S 14	130	1945
15	11/30/2010	S 15	14	35
16	11/1/2010	S 16	13	60
17	10/14/2010	S 17	*110	23
18	11/30/2010	S 18	50	21
19	11/30/2010	S 19	7	25
20	10/14/2010	S 20	110	72
21	10/14/2010	S 21	*1,100	645
22	11/30/2010	S 22	21	17
23	11/30/2010	S 23	4	21
24	10/18/2010	S 24	11	50
25	10/18/2010	S 25	7	17
26	10/18/2010	S 26	*1,700	791
27	10/18/2010	S 27	80	56
28	10/18/2010	S 28	170	157
29	10/18/2010	S 29	430	981
30	10/18/2010	S 30	*170	35
31	10/14/2010	S 31	170	677
32	10/14/2010	S 32	*300	7
33	10/14/2010	S 33	*500	18
34	10/14/2010	S 34	30	17
35	10/14/2010	S 35	*500	21
36	10/14/2010	S 36	*500	14
37	10/14/2010	S 37	*230	10
38	12/6/2010	S 38	13	30
39	10/25/2010	S 39	11	53
40	10/25/2010	S 40	4	2

* Fecal Coliform Exceedance



SHORELINE MONITORING PROGRAM

2010

FECAL COLIFORM SAMPLE RESULTS

4th QUARTER

No	Sample Date	Station ID	Fecal Coliform	2010 Baseline (95% UCL)
41	10/25/2010	S 41	2	3
42	10/25/2010	S 42	2	7
43	10/25/2010	S 43	2	16
44	10/25/2010	S 44	2	4
45	10/25/2010	S 45	23	47
46	12/6/2010	S 46	280	1091
47	11/1/2010	S 47	110	172
48	11/1/2010	S 48	*500	91
49	11/1/2010	S 49	50	95
50	11/1/2010	S 50	130	65
51	11/1/2010	S 51	80	118
52	11/1/2010	S 52	27	107
53	11/1/2010	S 53	50	51
54	11/1/2010	S 54	50	152
55	11/1/2010	S 55	50	172
56	11/1/2010	S 56	17	113
57	11/1/2010	S 57	8	399
58	11/30/2010	S 58	8	72
59	11/30/2010	S 59	*5,000	333
60	11/3/2010	S 60	300	1133
61	11/3/2010	S 61	*16000	5073
62	11/3/2010	S 62	230	1165
63	10/26/2010	S 63	13	41
64	10/26/2010	S 64	8	293
65	10/26/2010	S 65	17	148
66	10/26/2010	S 66	4	78
67	11/30/2010	S 67	17	131
68	10/18/2010	S 68	*500	289
69	10/25/2010	S 69	4	39
70	10/25/2010	S 70	30	26
71	10/25/2010	S 71	8	136
72	10/25/2010	S 72	8	96
73	10/25/2010	S 73	2	6
74	10/14/2010	S 74	230	1699
75	10/18/2010	S 75	13	17
76	10/18/2010	S 76	*800	231
77	10/18/2010	S 77	*2,400	108
78	10/18/2010	S 78	*16000	7060
79	10/14/2010	S 79	*300	8
80	11/30/2010	S 80	300	312

* Fecal Coliform Exceedance

WEATHER REPORT

The fourth quarter monitoring and sampling of ambient sampling stations began on October 01, and ended on December 31, 2010. During this quarter, all eighty sentinel stations were sampled.

During this quarter a total of 11.30 inches of precipitation fell. Out of a possible 43 days available for sampling, the sentinel sampling crew utilized 15 days for sampling and exceedance investigations.

MINI-SHORELINE SURVEY RESULTS

S-17: Entrance to Brooklyn Navy Yard

A mini shoreline survey of the Brooklyn Navy Yard Basin was conducted by the end of November. The survey covered the entire shoreline of the basin. No discharge was observed.

S-21: Entrance to Coney Island Creek at Kaiser Playground

A mini shoreline survey of the Coney Island Creek was conducted by the end of October. The survey covered the shoreline between West 32nd Street and West 20th Street. No discharge was observed.

S-26: Paerdegat Basin & Avenue K

A mini shoreline survey of the Paedegat Basin was conducted by the beginning of November. The survey covered the entire shoreline of the basin. No discharge was observed.

S-30: Grassy Bay at South Runway 7 – JFK Airport

A mini shoreline survey of the Grassy Bay was conducted by the end of October. The survey covered the shoreline along the south runway-7 at the Kennedy Airport. No discharge was observed.

S-32: Entrance to Mott Basin at Breeze Place

A mini shoreline survey of the Mott Basin was conducted by the end of October. The survey covered the entire shoreline of the basin. No discharge was observed.

S-33: Entrance to Norton Basin at Dunbar Street

A mini shoreline survey of the Norton Basin was conducted by the end of October. The survey covered the entire shoreline of the basin. No discharge was observed.

S-35: Entrance to Vernam Basin at Alameda Avenue

A mini shoreline survey of the Vernam Basin was conducted by the end of October. The survey covered the entire shoreline of the basin. No discharge was observed.

S-36: Entrance to Barbadoes Basin at Beach 83rd Street

A mini shoreline survey of the Barbadoes Basin was conducted by the end of October. The survey covered the entire shoreline of the basin. No discharge was observed.

S-37: Beach Channel and Beach 131st Street

A mini shoreline survey of the Beach Channel was conducted by the beginning of November. The survey covered the shoreline between Beach 136th Street and Beach 121st Street. No discharge was observed.

S-48: Hudson River, under the George Washington Bridge

A mini shoreline survey of the Hudson River was conducted in mid November. The survey covered the shoreline between West 173rd Street and 183rd Street. No discharge was observed.

S-59: Bronx River & Randall Avenue

A mini shoreline survey of the Bronx River was conducted by the beginning of December. The survey covered the shorelines between Randall Avenue and the Bruckner Expressway. No discharge was observed.

S-61: Bronx River & E. 241st Street

A mini shoreline survey of the Bronx River was conducted in mid November. The survey covered the shorelines between Nereid Avenue and E. 243rd Street. No discharge was observed.

S-68: Gowanus Bay e/o Hamilton Avenue Bridge

A mini shoreline survey of the Gowanus Bay was conducted by the end of November. The survey covered the shorelines between Columbia Street and 23rd Street. No discharge was observed.

S-76: Fresh Creek Basin & Avenue N

A mini shoreline survey of the Fresh Creek Basin was conducted by the beginning of November. The survey covered the entire shoreline of the basin. No discharge was observed.

S-77: Grassy Bay under Cross Bay Boulevard Bridge

A mini shoreline survey of the Grassy Bay was conducted by the end of October. The survey covered the entire shorelines of the bay. No discharge was observed.

S-78: Bergen Basin & 163rd Avenue

A mini shoreline survey of the Bergen Basin was conducted by the beginning of December. The survey covered the entire shoreline of the basin. No discharge was observed. This station encompasses an area near JFK Airport (airport has over 60% controls) and access to the Basin is very limited due to airport security. This impacted DEP's ability to investigate completely.

S-79: Broad Channel e/o Giant Bar Marsh

A mini shoreline survey of the Broad Channel was conducted by the end of October. The survey covered the shoreline between Seaside Avenue and Beach 89th Street. No discharge was observed.

DRY WEATHER DISCHARGES

HP-627, 4201 Webster Corp/Mobile, Bronx

During an ongoing comprehensive survey of the outfalls tributary to the Bronx River, an outfall designated as HP-627 was observed discharging during dry weather. Upon further inspection of the immediate vicinity, CMS identified an establishment located at 4201 Webster Ave, Bronx, illegally connected to the storm sewer tributary to the outfall. As a result, a Commissioner's Order # 44187 was issued to the establishment owner to remove the illegal sanitary connection from the storm sewer and reconnect it to the sanitary sewer.

A final dye test was performed on 12/14/10 and the dye was only observed in the sanitary sewer. Therefore, this case was closed. Please refer to Item Number 5503.

2771 Knapp Street, Brooklyn

In response to a request from a NYS DEC Officer regarding a possible direct discharge to Shell Bank Creek from the Deauville Marina (*2771 Knapp Street, Coney Island*), dye was introduced separately to the marina's toilet, sink and shower by CMS personnel.

The toilet emptied into a holding tank, which was overflowing to the creek. The shower and sink were observed to be direct discharges. As a result, Commissioner's Order #E44188 was issued to the marina to cease the sanitary discharge to the marina. Due to the nature of the discharge, the case was transferred back to NYS-DEC.